

## EAST Search History

## EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	238701	(tomita akihisa nakamura kazuo tajima akio tanaka akihiro nanbu yoshihiro suzuki shuuji takeuchi takeshi maeda wakako takahashi seigo).in.	US-PGPUB; USPAT	OR	ON	2009/08/18 15:42
S2	9	(cryptograph\$5 and key and random and phase and split\$5).clm.	US-PGPUB; USPAT	OR	ON	2009/08/19 08:07
S3	238701	(tomita akihisa nakamura kazuo tajima akio tanaka akihiro nanbu yoshihiro suzuki shuuji takeuchi takeshi maeda wakako takahashi seigo).in.	US-PGPUB; USPAT	OR	ON	2009/08/19 08:07
S4	1	S3 and S2	US-PGPUB; USPAT	OR	ON	2009/08/19 08:07
S5	0	(cryptograph\$5 and key and random and phase and ploar\$8).clm.	US-PGPUB; USPAT	OR	ON	2009/08/19 08:08
S6	13	(cryptograph\$5 and key and random and phase and polar\$8).clm.	US-PGPUB; USPAT	OR	ON	2009/08/19 08:08
S7	1	S3 and S6	US-PGPUB; USPAT	OR	ON	2009/08/19 08:08
S8	27	"6188768"	US-PGPUB; USPAT	OR	ON	2009/08/19 08:09
S9	0	(cryptograph\$5 same key) and (random same phase same ploarization same "180")	US-PGPUB; USPAT	OR	ON	2009/08/19 08:29
S10	0	(cryptograph\$5 same key) and (random same phase same ploarization) and "180"	US-PGPUB; USPAT	OR	ON	2009/08/19 08:30
S11	11	(cryptograph\$5 same key) and (random same phase same polarization) and "180"	US-PGPUB; USPAT	OR	ON	2009/08/19 08:30

S12	1	(cryptograph\$5 same key) and (random same phase same polarization same "180")	US-PGPUB; USPAT	OR	ON	2009/08/19 08:30
S13	0	(cryptograph\$5 same key) and ((orthogonal near4 polari\$6) same "180" same phase same random)	US-PGPUB; USPAT	OR	ON	2009/08/19 08:59
S14	410	398/152.ccls.	US-PGPUB; USPAT	OR	ON	2009/08/19 09:11
S15	496	398/140.ccls.	US-PGPUB; USPAT	OR	ON	2009/08/19 09:11
S16	0	(S15 or S14) and (cryptograph\$5 or encrypt\$5) and (qunatum near3 key)	US-PGPUB; USPAT	OR	ON	2009/08/19 09:14
S17	5	(S15 or S14) and (cryptograph\$5 or encrypt\$5) and (quantum near3 key)	US-PGPUB; USPAT	OR	ON	2009/08/19 09:14
S18	2744	398/140, 182-184, 202-205.ccls.	US-PGPUB; USPAT	OR	ON	2009/08/19 09:23
S19	0	(S18) and (cryptograph \$5 or encrypt\$5) and (qunatum near3 key)	US-PGPUB; USPAT	OR	ON	2009/08/19 09:23
S20	5	(S18) and (cryptograph \$5 or encrypt\$5) and (quantum near3 key)	US-PGPUB; USPAT	OR	ON	2009/08/19 09:23
S21	905369	random number same phase same "1802" same orthogonally saem polarized	US-PGPUB; USPAT	OR	ON	2009/08/19 10:32
S22	808779	random number same phase same "180" same orthogonally same polarized	US-PGPUB; USPAT	OR	ON	2009/08/19 10:32
S23	1	random same number same phase same "180" same orthogonally same polarized	US-PGPUB; USPAT	OR	ON	2009/08/19 10:32
S24	183153	(driv\$5 voltage) near4 (phase modulat\$5)	US-PGPUB; USPAT	OR	ON	2009/08/19 11:22
S25	144	(driv\$5 adj voltage) near4(phase adj modulat\$5)	US-PGPUB; USPAT	OR	ON	2009/08/19 11:23
S26	20	((driv\$5 adj voltage) near4(phase adj modulat\$5)) same pi	US-PGPUB; USPAT	OR	ON	2009/08/19 11:24

S27	27	"6188768"	US-PGPUB; USPAT	OR	ON	2009/08/19 16:18
S28	0	S27 and differennt	US-PGPUB; USPAT	OR	ON	2009/08/19 16:18
S29	24	S27 and different	US-PGPUB; USPAT	OR	ON	2009/08/19 16:18
S30	0	polarzation same different same (distance or length) same modulat\$5	US-PGPUB; USPAT	OR	ON	2009/08/19 16:42
S31	731	polarization same different same (distance or length) same modulat\$5	US-PGPUB; USPAT	OR	ON	2009/08/19 16:42
S32	118	polarization same different same (distance or length) same modulat\$5 same (beam adj split\$5)	US-PGPUB; USPAT	OR	ON	2009/08/19 16:43
S33	3624518	S32 and s "26"	US-PGPUB; USPAT	OR	ON	2009/08/19 16:47
S34	20	((driv\$5 adj voltage) near4(phase adj modulat\$5)) same pi	US-PGPUB; USPAT	OR	ON	2009/08/19 16:47
S35	0	S32 and S34	US-PGPUB; USPAT	OR	ON	2009/08/19 16:47
S36	1	"6954307"	US-PGPUB; USPAT	OR	ON	2009/08/19 17:18
S37	10	proton near3 exchange near3 modulators	US-PGPUB; USPAT	OR	ON	2009/08/20 08:49
S38	0	polarization independetn phase modulator	US-PGPUB; USPAT	ADJ	ON	2009/08/20 09:05
S39	32	polarization independent phase modulator	US-PGPUB; USPAT	ADJ	ON	2009/08/20 09:05
S40	4	(polarization beam splitter) same phase modulator same (faraday rotator)	US-PGPUB; USPAT	ADJ	ON	2009/08/20 09:13
S41	0	(polarization maintaining fiber) and (elctric field vector) and (orthogonal\$5 polariz \$5) and (PBS or (polarization beam split \$5)) and (anti\$1reflect \$5)	US-PGPUB; USPAT	ADJ	ON	2009/08/20 11:43

S42	0	(polarization maintaining fiber) and (electric field vector) and (orthogonal\$5 polariz\$5) and (PBS or (polarization beam split\$5))	US-PGPUB; USPAT	ADJ	ON	2009/08/20 11:44
S43	0	(polarization maintaining fiber) and (electric field vector) a	US-PGPUB; USPAT	ADJ	ON	2009/08/20 11:44
S44	0	(polarization maintaining fiber) and (electric field vector)	US-PGPUB; USPAT	ADJ	ON	2009/08/20 11:44
S45	81	(polarization maintaining fiber) and (electric field vector)	US-PGPUB; USPAT	ADJ	ON	2009/08/20 11:44
S46	11	(polarization maintaining fiber) and (electric field vector) and (orthogonal\$5 polariz\$5) and (PBS or (polarization beam split\$5))	US-PGPUB; USPAT	ADJ	ON	2009/08/20 11:44
S47	179957	(electric field vector) same "90" or pi	US-PGPUB; USPAT	ADJ	ON	2009/08/20 11:49
S48	270	(electric field vector) same ("90" or pi)	US-PGPUB; USPAT	ADJ	ON	2009/08/20 11:49
S49	38	(electric field vector) same ("90" or pi) same orthogon\$5	US-PGPUB; USPAT	ADJ	ON	2009/08/20 11:53
S50	6	(electric field vector) same (orient\$5 or align\$5) same (polarization axis)	US-PGPUB; USPAT	ADJ	ON	2009/08/20 11:55
S51	287	(electric field ) same (orient\$6 or align\$5) same (polarization axis)	US-PGPUB; USPAT	ADJ	ON	2009/08/20 11:59
S52	27	(electric field ) same (orient\$6 or align\$5) same (polarization axis) same ("90" or pi)	US-PGPUB; USPAT	ADJ	ON	2009/08/20 12:00
S53	6	(electric field vector ) same (orient\$6 or align\$5) same (polarization axis)	US-PGPUB; USPAT	ADJ	ON	2009/08/20 12:11
S54	287	(electric field ) same (orient\$6 or align\$5) same (polarization axis)	US-PGPUB; USPAT	ADJ	ON	2009/08/20 12:11

S55	0	(electric field ) same (orient\$6 or align\$5) same (polarization axis) same ((polarization maintaing fiber) or PMF)	US-PGPUB; USPAT	ADJ	ON	2009/08/20 12:12
S56	0	(electric field ) same (orient\$6 or align\$5) same (polarization axis) same ((polarization maintaining fiber) or PMF)	US-PGPUB; USPAT	ADJ	ON	2009/08/20 12:12
S57	6	((electric field ) same (orient\$6 or align\$5) same (polarization axis)) and ((polarization maintaining fiber) or PMF)	US-PGPUB; USPAT	ADJ	ON	2009/08/20 12:13
S58	0	S54 and PMF	US-PGPUB; USPAT	ADJ	ON	2009/08/20 12:16
S59	21	S54 same "90"	US-PGPUB; USPAT	ADJ	ON	2009/08/20 12:16
S60	11	(electric field vector) same (orient\$5 or align \$5) same (polarization ax\$1s)	US-PGPUB; USPAT	ADJ	ON	2009/08/20 12:29
S61	288	(electric near3 field ) same (orient\$6 or align \$5) same (polarization axis)	US-PGPUB; USPAT	ADJ	ON	2009/08/20 13:23
S62	0	(electric near3 field near S39 vector ) same (orient\$6 or align\$5) same (polarization axis)	US-PGPUB; USPAT	ADJ	ON	2009/08/20 13:23
S63	15	(electric near3 field near3 vector ) same (orient\$6 or align\$5) same (polarization axis)	US-PGPUB; USPAT	ADJ	ON	2009/08/20 13:23
S64	1	(electric near3 field near3 vector ) same (orient\$6 or align\$5) same (polarization axis) same "90"	US-PGPUB; USPAT	ADJ	ON	2009/08/20 13:43
S65	1	(electric near3 field near3 vector ) same (polarization axis) same "90"	US-PGPUB; USPAT	ADJ	ON	2009/08/20 13:44

S66	1	(electric near3 field near3 vector ) same (polarization axis) same ("90" or pi)	US-PGPUB; USPAT	ADJ	ON	2009/08/20 13:44
S67	48	(electric near3 field near3 vector ) same (polarization axis)	US-PGPUB; USPAT	ADJ	ON	2009/08/20 13:44
S68	2	(electric\$1field near3 vector ) same (polarization axis)	US-PGPUB; USPAT	ADJ	ON	2009/08/20 13:51
S69	2	(electric-field near3 vector ) same (polarization axis)	US-PGPUB; USPAT	ADJ	ON	2009/08/20 13:52
S70	2	(electric-field axis ) same (polarization axis)	US-PGPUB; USPAT	ADJ	ON	2009/08/20 13:53
S71	6	(electric-field near3 vector ) same (polarization ax\$1s)	US-PGPUB; USPAT	ADJ	ON	2009/08/20 13:54
S72	7	(electric-field near3 vector ) same (polariz \$5 ax\$1s)	US-PGPUB; USPAT	ADJ	ON	2009/08/20 14:01
S73	13	(electric-field near3 vector ) same (polariz \$5 near3 ax\$1s)	US-PGPUB; USPAT	ADJ	ON	2009/08/20 14:01
S74	3	(electric-field near3 axis ) same (polariz\$5 near3 ax\$1s)	US-PGPUB; USPAT	ADJ	ON	2009/08/20 14:05
S75	3	(electric\$1field near3 axis ) same (polariz\$5 near3 ax\$1s)	US-PGPUB; USPAT	ADJ	ON	2009/08/20 14:27
S76	6	"4139271"	US-PGPUB; USPAT	ADJ	ON	2009/08/20 14:30
S77	626	polarization fibers	US-PGPUB; USPAT	ADJ	ON	2009/08/20 14:33
S78	184	S77 and (electric (fields or axis or vectors))	US-PGPUB; USPAT	ADJ	ON	2009/08/20 14:34
S79	105	S77 and (electric (fields or axis or vectors))and ("90" or pi)	US-PGPUB; USPAT	ADJ	ON	2009/08/20 14:50
S80	981	polariz\$5 fiber	US-PGPUB; USPAT	ADJ	ON	2009/08/20 15:42
S81	6	(polariz\$5 fiber) near6 "90"	US-PGPUB; USPAT	ADJ	ON	2009/08/20 15:42
S82	1	"60482100"	US-PGPUB; USPAT	OR	ON	2009/08/20 16:32
S83	4	"6915082"	US-PGPUB; USPAT	OR	ON	2009/08/20 17:32

S84	19	(US-20060280509-\$ or US-20050152540-\$ or US-20040047633-\$ or US-20050217571-\$ or US-20070182968-\$ or US-20060139727-\$). did. or (US-7515716-\$ or US-7457548-\$ or US-7400724-\$ or US-7227955-\$ or US-6438234-\$ or US-6188768-\$ or US-7359512-\$ or US-7317574-\$ or US-7126691-\$ or US-7403623-\$ or US-5929989-\$ or US-7024123-\$ or US-6915082-\$).did.	US-PGPUB; USPAT	OR	ON	2009/08/22 10:31
S85	10	S84 and (different same (length or distance))	US-PGPUB; USPAT	OR	ON	2009/08/22 10:32
S87	122856	(polariz\$5 near5 after near "5" phase near3 shift)	US-PGPUB; USPAT	OR	ON	2009/08/24 08:22
S88	29	(polariz\$5 near5 after near5 phase near3 shift)	US-PGPUB; USPAT	OR	ON	2009/08/24 08:23
S89	32	(polariz\$5 near5 after near5 phase near5 shift)	US-PGPUB; USPAT	OR	ON	2009/08/24 08:31
S90	0	(2X2 near8 polariz\$5 near8 coupler)	US-PGPUB; USPAT	OR	ON	2009/08/24 09:41
S91	3	(2X2 same polariz\$5 same coupler)	US-PGPUB; USPAT	OR	ON	2009/08/24 09:42
S92	144	(polariz\$5 near3 beam near3 split\$5) same antireflection	US-PGPUB; USPAT	OR	ON	2009/08/24 10:01
S93	1	(polariz\$5 near3 beam near3 split\$5) same antireflection same deviation	US-PGPUB; USPAT	OR	ON	2009/08/24 10:04
S94	83	(polariz\$5 near3 beam near3 split\$5) same reflection same deviation	US-PGPUB; USPAT	OR	ON	2009/08/24 10:04

S95	11	("20020176255"   "20040155019"   "20060072074"   "20060209310"   "4733944"   "5098184"   "5786939"   "6030082"   "6257726"   "6310727"   "6406149").PN. OR ("7575328").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2009/08/24 10:07
S96	410	(polariz\$5 near3 beam near3 split\$5) same deviation	US-PGPUB; USPAT	OR	ON	2009/08/24 10:10
S100	7	(polariz\$5 near3 beam near3 split\$5) same deviation same compensation	US-PGPUB; USPAT	OR	ON	2009/08/24 10:45
S101	75	((polariz\$5 near3 beam near3 split\$5) same deviation) and brewster	US-PGPUB; USPAT	OR	ON	2009/08/24 10:48
S102	1	"20040114237" and brewster	US-PGPUB; USPAT	OR	ON	2009/08/24 10:51

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